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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,158	01/27/2004	Iosif R. Korsunsky		3378

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EXAMINER

HYEON, HAE M

ART UNIT PAPER NUMBER

2839

DATE MAILED: 04/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AL

Office Action Summary	Application No. 10/766,158	Applicant(s) KORSUNSKY ET AL.	
	Examiner Hae M. Hyeon	Art Unit 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 March 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 10, 13 and 14 is/are rejected.
- 7) ☒ Claim(s) 6-9, 11 and 12 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

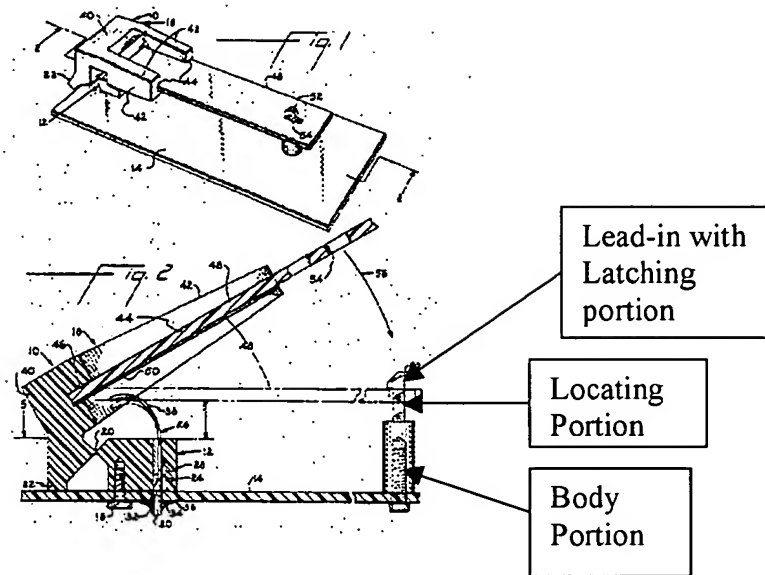
1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4, 10, 13 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Landman (3,701,071).

Landman discloses an electrical connector assembly comprising a motherboard 14, a daughter card 48, a card edge connector 10, and a board holder 52. The card edge connector comprises a housing (portion 18) defining a slot 44 for receiving the daughter card 48. A plurality of contacts 26 is disposed in the housing (portion 12) and is exposed into the slot 44. The daughter card 48 comprises a mating edge having a plurality of conductive pads 50 for electrically connecting with the contacts 26 of the card edge connector 10. The board hold down 52 is separated from the card edge connector 10 and mounted on the motherboard 14 for holding the daughter card 48 in the card edge connector 10 and keeping the daughter card 48 parallel to the motherboard 14. The board hold down comprises a body portion supporting the daughter card 48, a locating portion extending upwardly from the body portion and having a lead-in formed on a top end of the locating portion for extending into an engaging hole 54 of the daughter card 48, and a latching portion for downwardly pressing a rear edge section of the daughter card 48.



Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Landman in view of Shipe et al (6,773,268).

Claim 5 recites that the board hold down comprises a leg portion extending downwardly from the body portion to engage a retention hole of the motherboard. However, the board hold down 52 of Landman does not have leg portion. Instead, Landman uses a screw to fix the board hold down 52 on the motherboard 14.

Art Unit: 2839.

Shipe disclose a board hold down 1 comprising a body portion 13 and 14 and a leg portion 11 extending downwardly from the body portion 14 to engage a retention hole 80 of a motherboard 8.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to the board hold down taught by Landman such that it would have a leg portion as taught by Shipe because it only deals with the use of different mounting structure without changing the function of the board hold down. Also, both leg portion and screw for mounting the board hold down are well known in the art of an electrical connector.

Allowable Subject Matter

5. Claims 6-9, 11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter: None of the cited prior arts shows the board hold down comprising a body portion having a resilient arm and an anti-overstress extending from a first and a second ends of the body portion, respectively or the body portion having an arc-shaped and a resilient arm extending from a first end of the body portion and a latch portion extending upwardly from the resilient arm.

Response to Arguments

7. Applicant's arguments filed on March 11, 2005 have been fully considered but they are not persuasive.

The applicant argues that the reference by Landman does not disclose “a housing defining a slot, and a plurality of contacts disposed on at least one side of the slot of the housing and exposed into the slot” because the housing of Landman is comprised of two parts, a base 12 having a plurality of contacts 26 in a cavity 24 and a board support 18 having a slot 44 hinged to the base 12. Therefore, the applicant argues that Landman discloses two slots having different structure and perform different functions. Thus, the slots of the housing of Landman are different than the slot of the instant invention.

The examiner agrees with the applicant’s argument. However, the examiner believes that the claim languages are broad enough to read on the reference by Landman. When a daughter board 48 is inserted in the slot 44 and the board support 18 of the housing is rotated to a mounted position, the contacts 26 enter the slot 44 and contact a plurality of conductive pads 50 of the daughter board 48. At this moment, the contacts 26 can be said to be **disposed on at least one side of the slot of the housing, exposed into the slot, and electrically connecting with the conductive pads 50 of the daughter board 48** as recited in claim 1.

For claim 10, the applicant argues that the card connector of Landman does not having a support plane for the daughter card. However, the present specification does not describe the support plane recited in claim 10 and the drawings do not show this support plane. Although the support plane was not described and shown, the examiner understood this support plane to be an imaginary plane that is parallel to the motherboard. Therefore, when the daughter card is mounted on the motherboard by the card connector and the board hold down, the daughter card is supported by the card connector and the board hold down in parallel with the motherboard and

Art Unit: 2839

supported on this imaginary support plane, which is formed by the card connector and the board hold down and in parallel with the motherboard.

In same way, although Landman does not describe the support plane as recited in claim 10, the card connector 10 and the board hold down 52 securely support the daughter card 48 of Landman in parallel with the motherboard 14 (see Figs. 1 and 2). Thus, Landman does show and disclose the same support plane as recited in claim 10.

Thus, the examiner believes that the rejections applied in the office action filed on December 10, 2004 are appropriate.

Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Art Unit: 2839

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hae M. Hyeon whose telephone number is 571-272-2093. The examiner can normally be reached on Mon.-Fri. (8:30-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tulsidas C. Patel can be reached on (571) 272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hae M Hyeon
Primary Examiner
Art Unit 2839

hnh

hnh

Hae Moon Hyeon